

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of exciting a driving vibration in a vibrator for outputting a detection signal generated based on said driving vibration and a physical value and for measuring said physical value based on said detection signal, wherein said driving vibration is excited using a closed-loop circuit for self-excited vibration comprising a CR oscillator[:]] having an input and an output, said method comprising the steps of[:]]:

applying an activating signal of rectangular wave ~~en~~from ~~said~~ output of said CR oscillator to said vibrator ~~using~~ said CR oscillator to start said driving vibration; and

passing the signal from said vibrator to said input of said CR oscillator.

2. (Currently Amended) A system ~~effor~~ exciting a driving vibration in a vibrator for outputting a detection signal generated based on said driving vibration and a physical value and for measuring said physical value based on said detection signal,

said system comprising a closed-loop circuit for self-excited vibration for exciting said driving vibration, said circuit comprising a CR oscillator having an input and an output for applying an activating signal of rectangular wave ~~en~~from ~~said~~ output of said CR oscillator to said vibrator to start said driving vibration and for receiving the signal from said vibrator into said input of said CR oscillator.

3. (Currently Amended) A method of exciting a driving vibration in a vibrator for outputting a detection signal generated based on said driving vibration and a physical value and for measuring said physical value based on said detection signal, wherein said driving vibration is excited using a closed-loop circuit for self-excited vibration comprising a ring oscillator having an input and an output,[:]] said method comprising the steps of[:]]:

applying an activating signal of rectangular wave ~~on~~from said output of said ring oscillator to said vibrator using said ring oscillator to start said driving vibration; and
passing the signal from said vibrator to said input of said ring oscillator.

4. (Currently Amended) A system ~~for~~ exciting a driving vibration in a vibrator for outputting a detection signal generated based on said driving vibration and a physical value and for measuring said physical value based on said detection signal,

~~said system comprising a closed-loop circuit for self-excited vibration for exciting said driving vibration, said circuit comprising a ring oscillator having an input and an output for applying an activating signal of rectangular wave ~~on~~from said output of said ring oscillator to said vibrator to start said driving vibration and for receiving the signal from said vibrator into said input of said ring oscillator.~~